# Index of Generic Names of Fossil Plants, 1974–1978

GEOLOGICAL SURVEY BULLETIN 1517

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*By* ARTHUR D. WATT

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# CONTENTS

# INDEX OF GENERIC NAMES OF FOSSIL PLANTS, 1974–1978

By ARTHUR D. WATT

## INTRODUCTION

This bulletin is a continuation of the series begun as "Index of Generic Names of Fossil Plants, 1820–1950" (U.S. Geological Survey Bulletin 1013, 1955) by Henry N. Andrews, Jr. Bulletin 1013 was followed in 1970 by Bulletin 1300, also by Andrews; this encompassed the period 1820–1965 and included a complete history of this project and of the U.S. Geological Survey Compendium Index of Paleobotany, the primary source of material for this series. In 1975, Anna M. Blazer prepared a supplement (U.S. Geological Survey Bulletin 1396) that covered the period 1966–1973. The present supplement generally follows the format of the 1966–1973 Index, as well as the methodology described therein by Blazer. Some older names inadvertently omitted from the earlier bulletins have been incorporated here insofar as possible. This Index makes no attempt to include names of palynomorphs, diatoms, bacteria, acritarchs, or dinoflagellates.

The original aim of this supplement was to cover the years 1974–1977, but Richard S. Cowan of the Botany Department, Smithsonian Institution, kindly made available to me unpublished manuscript volumes of the "Index Nomina Genericorum" (later published in November 1979). In this material, I found many fossil generic names not encountered elsewhere: therefore, the coverage of this index has been extended through 1978. In the Index, all names initially found in the Index Nomina Genericorum are noted by the letters "ING" at the end of the citation; all entries taken either from quoted literature or ING and not seen by the present compiler are preceded by asterisks.

So that records of paleobotanical research may be kept as complete as possible in the Compendium Index, it is urgent that all paleobotanists contribute reprints or send notations of their publications to

The Paleobotanical Library
Paleontology and Stratigraphy Branch
U.S. Geological Survey
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Washington, D.C. 20560, U.S.A.

I have had considerable, much appreciated help in conjunction with the preparation of this supplement. The late Anna M. Blazer initiated the work, and Sergius H. Mamay generally supervised it. Francis M. Hueber, Smithsonian Institution, was always available for advice. Richard S. Cowan and Ellen Farr, also of the Smithsonian Institution, provided generous assistance through the ING manuscript. The librarians of both the U.S. Geological Survey and Smithsonian Institution gave invaluable assistance in locating publications.

## GENERIC INDEX OF FOSSIL PLANTS

*ALAFRUCTUS* MacGinitie, 1974
*Alafructus lineatulus* (Cockerell) MacGinitie, 1974, p. 68, pl. 15, fig. 3; winged fruit; Kisinger Lakes, Wyoming, U.S.A.; middle Eocene.

*ALAMATUS* Douglas, 1973
*Alamatus bifarius* Douglas, 1973, p. 94-95, pl. 37; pl. 38, figs. 1-2; fossil leaf; foot of Racecourse steps, Moonlight Head, Victoria, Australia; Mesozoic.

*ALATISPERMUM* Vassilevsk, 1977
**Alatispermum malandinii* Vassilevsk, 1977, *in* Mezozoishie otlozhenia Severo-Vostoka U.S.S.R., Sbornik nauchnykh trudov, p. 66-70, pl. 8, figs. 1-2; Lower Cretaceous.

*ALIBIZZINIUM* Prakash, 1973
*Alibizzinium eolebbekianum* Prakash, 1973, p. 197-199, pl. 3, figs. 9, 11, 12; fossil wood, Leguminosae; Himachal Pradesh, India; lower Siwalik beds, middle Miocene.

*ALLOCLADUS* Townrow, 1967
*Allocladus rajmahalense* (Feistmantel) Townrow, 1967, p. 159-161, pl. 1 D; coniferales incertae sedis; Bindarum, Rajmahal Hills, India; Middle Jurassic. New name for *Echinostrobus rajmahalense* Feistmantel, 1877, p. 90, pl. 65, figs. 3, 3a.

*ALNITES* H. R. Goeppert and G. C. Berendt, 1845
**Alnites succineus* Goeppert and Berendt, 1845, Bernstein Org. Reste Vorwelt, v. 1, no. 1, p. 106; leaves; Prussia; Miocene. ING

*ALTINGIOXYLON* Kramer, 1974
*Altingioxylon rhodoleioides* Kramer, 1974, p. 98-105, pl. 23, figs. 61, 65; pl. 24, figs. 65, 67, 68, 70-72; fossil wood; Hamamelidaceae; Java; Tertiary.

*AMADOCOPTERIS* Zalessky, 1944
**Amadocopteris rossica* Zalessky, 1944, Neues Jahrb. Mineral. Geol., Monatsch., Abt. B, Geol. Palaeontol. (1944), p. 190; fertile foliage, incertae sedis; Mironowaja, Donetz Basin, U.S.S.R.; Lower Permian. ING

*AMANDA* Douglas, 1973
*Amanda floribunda* Douglas, 1973, p. 95-96, pl. 36, figs. 2-3; pl. 39, figs. 1-3; pl. 41, figs. 1-3; fossil leaves; Culvert, Deep Creek near Casterton, Victoria, Australia; Mesozoic.

*AMDRUPIOPSIS* H. C. Sze and H. H. Lee, 1952
**Amdrupiopsis sphenopterioides* Sze and Lee, 1952, Palaeontol. Sin., Ser. A., ser. 2, 3, p. 6, 24; foliage, Filicales; Ngai-Shan-Tze, Weiyuan, China; Jurassic. ING

*AMPHORELLA* Borza and Samuel, 1977
*Amphorella bicamerata* Borza and Samuel, 1977, p. 100.101, pl. 1, figs. 1-8; incertae sedis; the Muranska planina plateau, Czechoslovakia; Upper Triassic, Norian.

*AMPHOROCHARA* Krasavina, 1978
*Amphorochara grambastii* Krasavina, 1978, p. 227-228, pl. 1, figs. 1-6; charophyte; eastern Siberia, U.S.S.R.; upper Pleistocene.

*ANABAENIDIUM* Schopf, 1968
*Anabaenidium johnsonii* Schopf, 1968, p. 680-681, pl. 81, fig. 4; incertae sedis, "alga," Nostocaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.

*ANABARIA* Komar, 1964
Noticed in Tsao-Rui-chi and Liang Yu-zou, 1974.

*ANASPERMA Long, 1966*
*Anasperma burnense* Long, 1966, p. 351-354, pl. 1, figs. 7-10; pl. 2, figs. 11-20; pl. 3, figs. 21-32; pl. 4, fig. 33; anatroprous, ovoid seed; near Burnmouth, Berwickshire, Scotland; Lower Carboniferous.

*ANCYSTROPHYLLUM* Göppert, 1841
*Ancystrophyllum stigmariaeforme* Göppert, 1841, Genres de pl. foss. v. 2, p. 33, pl. 17, figs. 1-3; incertae sedis; Landshut, Silesia, Germany; Carboniferous.

*ANDANOPHYLLUM* Svedov, 1957
**Andanophyllum elongatum* Svedov, N. A., 1957, Sborn. Statej. Paleontol. Biostratigr. v. 3, p. 61; leaf, Medullosaceae; lower Tungusska River basin, eastern Siberia, U.S.S.R.; Lower Permian. ING

*ANDREWOPTERIS* Baxter, 1975
*Andrewopteris revoluta* Baxter, 1975, p. 157-161, fig. 1, pls. 1-3; fern, Filicales; Pittsburg-Midway coal mine 19.5 miles northeast of Hallowell, Kansas, U.S.A.; Middle Pennsylvanian.

*ANGOPHYLLITES* Gluchova, 1978
**Angophyllites optimus* Gluchova, 1978, p. 534, illustrated in Gluchova, 1967, as *Cordaites optimus*; fossil leaves; Minusinsk Basin, U.S.S.R.; Middle to Upper Carboniferous.

*ANGRENIA* T. A. Sixtel, 1972
**Angrenia angustifolia* Sixtel, 1972, *in* Grigor'eva, A. M. et al, Novye Vidy Drevnih Rast. Bespoznoc, U.S.S.R., p. 324; trunks, leaves, and strobili, Gymnospermae; Tjan'San, central Asia; Upper Permian and Lower Triassic. ING

vegetable remains found in a fossil state in this country, v. 2, pl. 116; tree fern compressions; Illinois, U.S.A.; Pennsylvanian.

*ARTOCARPOXYLON* Prakash and Lalitha, 1978

*Artocarpoxylon kartichcherraensis*, 1978, p. 132–133, 3 figs.; fossil wood, Moraceae; Kartichcherra, about 50 km south of Hailakandi, District Cachar, Assam, India; Tipam sandstones, Tertiary.

*ASANSOLIA* Pant and Misra, 1976

*Asansolia phegopteroides* Pant and Misra, 1976, p. 129–130, 3 pls.; foliage, Filicinae; Raniganj coal field, India; Raniganj Stage.

*ASCODESMISITES* Trivedi, Chaturvedi and Verma, 1973

*Ascodesmisites malayensis* Trivedi, Chaturvedi and Verma, 1973, p. 126–129, pl. 1, figs. 1–5; fossil fungus; Kuala Lumpur, Malaya; Tertiary, Eocene.

*ASPERIA* Semikhatov, 1978

*Asperia aspera* Semikhatov, 1978, p. 120–122, pl. 13, figs. 1–5; stromatolite; Canadian Shield; Aphebian.

*ASPHALTINELLA* Mamet and Roux, 1978

*Asphaltinella horowitzi* Mamet and Roux, 1978, p. 78, pl. 4, figs. 2–6; alga; northernmost Tennessee, U.S.A.; base of Namurian.

*ASTEROCAPSOIDES* Yin and Li, 1978

*Asterocapsoides sinensis* Yin and Li, 1978, p. 87, pl. 9, fig. 7; alga, Chroococcaceae; southwest China; Precambrian.

*ASTEROSTROMUM* Zanon, 1947

**Asterostromum salurnus* Zanon, 1947, Acta Pontif. Acad. Sci. v. 11, p. 48, 55; Chrysostomaceae; Quaternary. ING

*ASTRONIOXYLON* Suguio and Mussa, 1978

*Astronioxylon mainieri* Suguio and Mussa, 1978, p. 28–30, est. 1, figs. 1–4; wood, Anacardiaceae; Itaquaquecetuba, São Paulo City, Brazil; upper Pleistocene.

*ATALANTIOXYLON* Lakhanpal, Prakash and Bande, 1978

*Atalantioxylon indicum* Lakhanpal, Prakash and Bande, 1978, p. 198–199, pl. 3, figs. 13–17; fossil wood, Rutaceae; near the village of Mohgaon, Mandla District, Madhya Pradesh, India; Paleogene.

*ATRIAECARPUM* Chandler, 1978

*Atriaecarpum venablesi* (Chandler) Chandler, 1978, p. 21–22, pl. 4, figs. 4–5, fossil seed; Bognor, England; lower Aldwick beds, Tertiary.

*AUSTRALOXYLON* Marguerier, 1973

*Australoxylon teixeirae* Marguerier, 1973, p. 37–58, 6 pls.; fossil wood; District of Tete, Natal, Africa; Permian.

*AUSTROSEQUOIA* Peters and Christophel, 1978

*Austrosequoia wintonensis* Peters and Christophel, 1978, pl. 3119–3128, figs. 2–12; taxodaceous cone; 50 km northwest of Winton, Queensland, Australia; Upper Cretaceous.

*AUSTROSTROBUS* Morbelli and Petriella, 1973

*Austrostrobus ornatum* Morbelli and Petriella, 1973, p. 280–281, pls. 1, 2; a petrified lycopsidean cone; Estancia Canadon Largo, Santa Cruz Province, Argentina; Triassic.

*AUSTROGLOSSA* Holmes, 1974

*Austroglossa walkomii* Holmes, 1974, p. 132–133, pl. 7, figs. 2, 3; female fructification, Glossopteridales; Kane's Flat, Cooyal, New South Wales, Australia; Upper Permian.

*AVERRHOITES* Hickey, 1977

*Averrhoites affinis* (Newberry) Hickey, 1977, p. 132, pl. 33, figs. 2, 3; pl. 35, figs. 1, 2; fossil leaves; Tertiary; new name for *Sapindus affinis* Newberry, 1868, p. 52.

B

*BAGEOPITYS* Dolms, 1976

*Bageopitys articulata* Dolms, 1976, p. 164–181, 5 pls.; fossil wood; 12 km from Bagé, Rio Grande do Sul, Brazil; Permian.

*BAICALIOR* Semikhalov, 1960

**Baicalior prima* Semikhalov, 1960; stromatolite; Turukhamsk region; Riphean, Precambrian.

*BALIOS* Tsao, Chen, and Chu, 1965

**Balios pinuensis* (Tsao) Tsao, Chen, and Chu, 1974, p. 71, pl. 9, fig. 2; Cyanophyta; China; Sinian. Noticed in Cao Ruiji and Zhao Wenjie, 1978, p. 15. New name for *Praechrococcus pinguensis* Tsao, 1964.

*BALKHANELLA* Srivastava, 1973

*Balkhanella hurkai* Srivastava, 1973, p. 690–708, figs. 23–25; alga; Bolshoi Balkhan, U.S.S.R.; Neocomian, Lower Cretaceous. ING

*BARSASIOPHYTON* Stepanov, 1975

*Barsasiophyton aborigenum* Stepanov, 1975, p. 77, pl. 23, fig. 2; incertae sedis (?algoid); outskirts of Kuznetsk Basin, U.S.S.R.; Devonian.

River basin, U.S.S.R.; Lower Permian. ING

*BORYSTHENIA* Stanislavskii, 1976
*Borysthenia fasciculata* Stanislavskii, 1976, p. 75–81, pl. 36, figs. 5b–7; pl. 43, figs. 1–4; pl. 44; pl. 45, figs. 1–8; pl. 47, figs. 1–3; fossil seeds, Cycadocarpidiaceae; Donetz Basin, U.S.S.R.; middle Keuper.

*BOSEA* Srivastava, 1973
*Bosea indica* Srivastava, 1973, p. 19–21, pl. 1, figs. 1–12; microsporangiate fructification, incertae sedis; near Nidpur, Gopad River valley, Sidhi District, Madhya Pradesh, India; Triassic.

*BOSTONIA* Stein and Beck, 1978
*Bostonia perplexa* Stein and Beck, 1978, p. 459–465, 8 figs.; calamopityan axis; near Boston, Kentucky, U.S.A.; Sanderson Formation, Lower Mississippian.

*BOSWELLIOXYLON* Dayal, 1964
*Boswellioxylon indicum* Dayal, 1964, p. 683–684, figs. 1–3; fossil wood, Burseraceae; Keria, Madha Pradesh, India; Deccan Intertrappean series, Eocene.

*BRANDENBERGIA* Mustafa, 1975
*Brandenbergia meinertii* Mustafa, 1975, p. 122–128, pls. 7, 8; fossil leaves; Brandenberg-Schichten, Sauerland, Germany; Middle Devonian.

*BRASILESTILOXYLON* Mussa, 1978
*Brasilestiloxylon piracicabense* Mussa, 1978, p. 118–122, pl. 1, figs. 1–5; wood; Pedreira Vitti, Piracicaba, Est. São Paulo, Brazil; Formacão Irati, Grupo Passa Dois.

*BREVICHARA* Horn af Rantzien, 1956
*Brevichara hordlensis* Horn af Rantzien, 1956, Micropaleontology, v. 2, p. 245; Charophyceae; Hordle Cliffs, Hampshire, England; upper Eocene. New name for *Chara wrightii* Reid and Groves, 1921, p. 183, pl. 4, fig. 1. ING

*BRYOTRICHUM* Yasui, 1926
*Bryotrichum aichiense* Yasui, 1926, p. 18, pl. 1, figs. 1–6; musci, Bryaceae; Tertiary. ING

*BULLASPHAERA* Licari, 1978
*Bullasphaera variegata* Licari, 1978, p. 789, pl. 3, fig. 6; alga, incertae sedis; eastern California, U.S.A.; upper pre-Phanerozoic.

*BURSEROXYLON* Prakash and Tripathi, 1973
*Burseroxylon presurratum* Prakash and Tripathi, 1973, p. 58–60, pl. 4, figs. 19–25; fossil wood, ?Burserorylaceae; Sultanicherra, near Hailadandi, Cachar District, Assam, India; Tertiary.

*BUSCHMANNIA* Kaever and Richter, 1976
*Buschmannia roeringi* Kaever and Richter, 1976, p. 27–33, pl. 4, figs. 1–5; Archaeocyatha; Southwest Africa; Lower Cambrian.

*BUTHELEZIA* Lacey, van Dijk, and Gordon-Gray, 1975
*Buthelezia mooiensis* Lacey, van Dijk, and Gordon-Gray, 1975, p. 411–413, figs. on p. 412; small leafy shoots, incertae sedis; Mooi River district, Natal, South Africa; Upper Permian.

*BUTINELLA* Makarikhin, 1978
*Butinella boreale* Makarikhin, 1978, p. 76–77, pl. 2, fig. 3; stromatolite; Karelia, U.S.S.R.; Yatulian.

*BYSMOCHARA* Grambast and Gutiérrez, 1977
*Bysmochara conquensis* Grambast and Gutiérrez, 1977, p. 10–11, pl. 2, figs. 10–14; pl. 3, figs. 1–4; pl. 16, figs. 4a–b; charophyte; Torrecilla, ouest au km. 20, de la route allant Ribagorda, Spain; Campanian and Maastrichtian.

## C

*CABRIEROPORA* Mamet and Roux, 1975
*Cabrieropora pokornyi* Mamet and Roux, 1975, algae, Dasycladaceae; Cabrières region (Montagne Noire), France; Carboniferous.

*CALATHOPTERIS* Long, 1976
*Calathopteris heterophylla* Long, 1976, p. 327–335, pl. 1, figs. 1–10; pl. 2, figs. 11–23; pteridospermous axes; Oxroad Bay, East Lothian, Scotland; Lower Carboniferous.

*CALCINEMA* Bornemann, 1886
**Calcinema triasinum* Bornemann, 1886, Jahrb. Koenigl. Preuss Geol. Landesanst. 1885, p. 290; algae incertae sedis; Horstberg, Thuringen, Germany; Triassic. ING

*CALYPTOTHRIX* Schopf, 1968
*Calyptothrix annulata* Schopf, 1968, p. 667–669, pl. 78, figs. 5–8; "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.

*CAMPTONEMA* Chungying, 1977
*Camptonema sinense* Chungying, 1977, p. 163, pls. 1, 2, figs. 1–15; blue-green algae; Xinghua of northern Kiangsu, China; Lower Tertiary.

*CANARIOPHYLLUM* Hickey, 1977
*Canariophyllum ampla* Hickey, 1977, p. 134, pl. 35, figs. 3, 4; Mercer County,

France; Lias.

*CHITALEYPUSHPAM* Paradkar, 1971

*Chitaleypushpam mohgaoense* Paradkar, 1971, p. 334-338, figs. 1-10; pls. 1-2, figs. 1-11; a dicotyledonous fossil flower; Mohgaonkalan, Chhindwara District, Madhya Pradesh, India; Upper Cretaceous.

*CHLOROTYLITES* Howe, 1932

*Chlorotylites berryi* Howe, 1932, p. 219-220, pl. 15, figs. 1-3; alga, Chlorophyceae; Sumter County, Alabama, U.S.A.; Sucarnooche Clay, lower Eocene. ING

*CHONDROSTROMA* Gürich, 1906

**Chondrostroma* no sp. given Gurich, 1906, Mem. Mus. Roy. Hist. Nat. Belgique, v. 3, no. 12, p. 12, 45, 54; Cyanophyceae; Namur, Belgium; Lower Carboniferous, lower Viséan. ING

*CLADOCUPRESSINOXYLON* Hoffmann, 1884

**Cladocupressinoxylon ucranicum* Hoffman, 1884, Z. Naturwiss, v. 57, p. 171; wood of branches, Coniferae; Verona, Italy; Cretaceous. ING

*CLADOGIRVANELLA* Ott, 1966

**Cladogirvanella cipitensis* Ott, 1966, Mitt. Bayer. Staatssamml. Palaeont., v. 6, p. 162; Cyanophyceae; Cipitbach, Austria; Middle Triassic, upper Ladinian. ING

*CHLAMYDOSPORITES* Paradkar, 1975

*Chlamydosporites gramineum* Paradkar, 1975, p. 96, pl. 1, fig. 4; fossil fungi; Mohgaon Kalan, District Chhindwara, M. P., India; Deccan Intertrappean series, Upper Cretaceous.

*CHOLOROGLOEAOPSIS* Maithy, 1975

*Cholorogloeaopsis zairensis* Maithy, 1975, p. 139, pl. 3, figs. 21-23; algal, elongated colony, Entophysalidaceae; Kanshi, Zaire; Bushimay supergroup, upper Precambrian.

*CHRYSOPHYLLOXYLON* Awasthi, 1975

*Chrysophylloxylon pondicherriense* Awasthi, 1975, p. 21-22, pl. 1, figs. 1-3, 6; pl. 2, figs. 7, 8; fossil wood; Murattandichavadi, near Pondicherry, India; Cuddalore series, Miocene and Pliocene.

*CIRCULIMORPHA* Yin and Li, 1978

*Circulimorpha concentrica* Yin and Li, 1978, p. 91, pl. 7, figs. 7-8; alga, Chlamydomonadaceae; southwest China; Precambrian.

*CLASSOSTROBUS* Alvin, Spicer, and Watson, 1978

*Classostrobus rishra* (Barnard) Alvin, Spicer, and Watson, 1978, p. 850. New name for *Masculostrobus rishra* Bernard, 1968, p. 168, pl. 1; conifer male cone; Elburz Mountains, northern Iran; Upper Carboniferous.

*CLIBECA* Poncet, 1975

*Clibeca devoniana* Poncet, 1975, p. 119-123, pl. 11, figs. 1-5; calcareous algae, Udoteaceae; Surtainville, Cotentin (Manche), France; Lower Devonian.

*CLOSTERIMOPSIS* Yin and Li, 1978

*Closterimopsis curvus* Yin and Li, 1978, p. 94, pl, 8, fig. 10; alga, Dasmidaceae; southwest China; Precambrian.

*COELOTROCHIUM* Schlueter, 1879

**Coelotrochium dechenia* Schlueter, 1879, Z. Deutsch. Geol. Ges., v. 31, p. 668; Dasycladaceae; Eifel, Germany; Middle Devonian. ING

*COLAXYLON* Koeniguer, 1973

*Colaxylon coppensi* Koeniguer, 1973, p. 192-195, pl. 1, figs. 1-3; fossil plant, Sterculiaceae; l'oasis de Kirdimi, Tchad; Devonian.

*COLUMBIAPORA* Mamet, 1974

*Columbiapora johnsoni* Mamet, 1974, p. 44, pl. 3, figs. 5-12; alga, Dasycladaceae; region of Mt. Hannington, British Columbia, Canada; Tournaisian.

*COMBRETOPHYLLUM* Puri, 1966

*Combretophyllum josiensis* Puri, 1966, p. 239, pl. 3, figs. 10, 11; angiosperic leaf fragments, Combretaceae; Jos Plateau, Nigeria; Tertiary.

*COMBRETOXYLON* Lemoigne, 1978

*Combretoxylon desrotoris* Lemoigne, 1978, p. 110-111, pl. 5, figs. 10-15; fossil wood; Pont sur l'Omo, Ethiopia; Miocene.

*CONDOMAEPHYTON* Radcenko and Petrosjan, 1960

**Condomaephyton gracile* Radcenko, G. P. and Petrosjan, M. M., 1960, Vesesojuzn. Nauk Geol. Inst. Inform. Sbornik, v. 24, p. 102; stem, incertae sedis; Kondoma River, Kemerovo District, Siberia, U.S.S.R.; Upper Devonian. ING

*CONFUNDA* Semikhatov, 1978

*Confunda confuta* Semikhatov, 1978, p. 133-136, pl. 19, figs. 1-5; stromatolite; Canadian Shield; Aphebian.

*CONGLOBORELLA* Licari, 1978

*Congloborella troxelli* Licari, 1978, p. 788-789, pl. 2, fig. 4; alga, incertae sedis; eastern California; upper pre-Phanerozoic.

*CONDOMAJELLA* Radczenko, 1969

*Condomajella typica* Radczenko, 1969, p. 173; gymnospermous seed; Permian. C. *tankaensis* Radczenko, 1969, pl. 27, fig. 14 in Sukhov, 1969, validates the genus.

1855–1858, fig. 2; Dasycladaceae; Vailhan, Herault, France; Lower Carboniferous. ING

*EOVOLVOX* Kaźmierczak, 1975

*Eovolvox silesiensis* Kaźmierczak, 1975, p. 76–81, pl. 17, figs. 1, 2; pl. 18, figs. 1–3; pl. 19, figs. 1, 3–4; pl. 20, figs. 1–6; colonial algae, Volvocaceae; town of Sosnowiec, Katowice District, Upper Silesia, southern Poland; Upper Devonian.

*EOZYGION* Schopf and Blacic, 1971

*Eozygion grande* Schopf and Blacic, 1971, p. 953–954, pl. 111, figs. 2a–c, 6?, 7?; pl. 112, figs. 5a, b; alga; Ellery Gorge, 80 km west of Alice Springs, Northern Territory, Australia; Precambrian.

*EPIVALVIA* Daley, 1974

*Epivalvia edwardsii* Daley, 1974, p. 15–16, pl. 1, figs. 1–3; calcified alga, Scytonemaceae; Isle of Wight, Hampshire, England; Oligocene.

*EQUITATILEPIS* Pant and Basu, 1977

*Equitatilepis elongatus* Pant and Basu, 1977, p. 175, pl. 3, figs. 17–21; fossil scale; Nidpur, India; Triassic.

*EREMODENDRON* Chachlov, 1940

*Eremodendron articulatum* Chachlov, 1940, p. 509; stem, Lycopodiopsida; river Batoy, near Krasnoyarsk, U.S.S.R.; Upper Devonian.

*EREMOSIMORPHA* Yin and Li, 1978

*Eremosimorpha elliptica* Yin and Li, 1978, p. 91, pl. 8, fig. 5; alga, Eremosphaeraceae?; southwest China; Precambrian.

*EREVANELLA* Maslov, 1962

*Erevanella flavellosa* Maslov, 1962, p. 129, text fig. 99; Rhodophyceae-Ungdarellaceae; Vedi area, Armenia, U.S.S.R.; Middle Permian.

*ERICOXYLON* Hofmann, 1939

**Ericoxylon arboreum* E. Hofmann, 1939, Tisia, v. 3, p. 267; wood, Ericaceae; Tokay-Eperjesi Mountains, Hungary; upper Miocene. ING

*ERITHRINAPHYLLUM* Louvet and Mouton, 1970

*Erithrinaphyllum parvisenegalense* Louvet and Mouton, 1970, p. 92–94, pl. 4, fig. 4; fossil leaf; Coquin, Libya; Oligocene.

*ESTINNOPHYTON* Fairon-Demaret, 1978

*Estinnophyton gracile* Fairon-Demaret, 1978, p. 597–610, figs. 1–9; plant remains; Estinnes-au-Mont, east of Binche, Belgium; lower Siegenian.

*EUROPHYLLITES* Gluchova, 1978

*Europhyllites crassus* (Renault) Gluchova, 1978, (sensu Harms and Leisman, 1961), p. 534, illustrated in Harms and Leisman, 1961; fossil leaves; Iowa, U.S.A.; Pennsylvanian. New name of *Cordaites crassus* Harms and Leisman, 1961.

EUSPONDYLOPORELLA Sokač and Nikler, 1973

*Euspondyloporella duplicata* Sokač and Nikler, 1973, p. 22–25, pl. 10, fig. 5; pl. 11, figs. 1–4; pl. 12, figs. 1–4; cylindrical calcareous thallus, Dasycladaceae; Montnégro, Jugoslavia; Barremian and Aptian.

*EUTHURSOPHYTON* Mustafa, 1978

*Euthursophyton hamperbachense* Mustafa, 1978, p. 94–97, pl. 9, figs. 11, 12; axes; Hamperbach-Tel, Sauerland, Germany; Devonian, Brandenberg beds.

*EUXYLOPHOROXYLON* Petriella, 1972

*Euxylophoroxylon chiquichanense* Petriella, 1972, p. 190–195, figs. 5A–B; pl. 4, figs. A, B, C, and E; wood, Rutaceae; central Chubut (Cerro Bororo), southern Argentina; Tertiary.

*EXTERNIA* Semikhatov, 1978

*Externia externa* Semikhatov, 1978, p. 122–125, pl. 14, figs. 1–4; stromatolite; Canadian Shield; Aphebian.

F

*FANESELLA* Cros and Lemoine, 1966

*Fanesella dolomitica* Cros and Lemoine, 1966, p. 164, pl. 2, figs. 1, 3, 5; Dasycladaceae with a cylindrical calcareous sleeve; Dolomites, Italy; Lias.

*FASCIELLA* Ivanova, 1973

*Fasciella kizilia* Ivanova, 1973, p. 39, pl. 21, fig. 2; pl. 27, fig. 6; ?Chlorophycophyta; Oural [Urals, U.S.S.R.?]; Carboniferous.

*FASCIPTERIS*, 1974

*Fascipteris hallei* (Kaw.), 1974, p. 99, pl. 68, figs. 8–12; leaflets, Pecopterides; China; Carboniferous. In Paleozoic plants of China: Nanking Inst. Geol. and Palaeont., 1974 (in Chinese). New name for *Validopteris hallei* (Kaw.) Stockm. and Math.

*FERAXOTHECA* Millay and Taylor, 1977

*Feraxotheca culcitaus* Millay and Taylor, 1977, p. 177–185, 14 figs., lyginopterid pollen organ; Lewis Creek, Kentucky, U.S.A.; Lower to lower Middle Pennsylvanian.

*FERGANIELLA* Prynada, 1935

**Ferganiella urjanchaica* Prynada, V. D., 1935, *in* Neuberg, M. F., Trudy Geol. Inst. Akad. Nauk, U.S.S.R., v. 5, p. 151;

1929–1932, 7 figs.; charophyte; Cabo del Termino, Prov. de Tarragone, Spain; Lower Cretaceous.

*GLOBOPHYCUS* Schopf, 1968

*Globophycus rugosum* Schopf, 1968, p. 683–684, pl. 84, fig. 1; incertae sedis, "alga," Chlorococcales (?); 40 miles east-northeast of Alice Springs, Northern Territory, Australia; upper Precambrian, Bitter Springs Formation.

*GLOEODINIOPSIS* Schopf, 1968

*Gloeodiniopsis lamellosa* Schopf, 1968, p. 684, pl. 84, fig. 2; incertae sedis, "alga," Chroococcaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; upper Precambrian, Bitter Springs Formation.

*GLOTTOLEPIS* Bose and Srivastava, 1970

*Glottolepis rugosa* Bose and Srivastava, 1970, p. 215–217, pl. 1, figs. 1–9; scale-leaves; Nidpur, Sidhi District, M. P., India; Lower Triassic.

*GOKSUELLA* Güvenc, 1966

*Goksuella maslovii* Güvenc, 1966, p. 848, pl. 32, fig. 13; Dasycladaceae; valley of Dikenli Dere, Alanya, Turkey; Middle Carboniferous. ING

*GONAMOPHYTON* Vologdin and Drosdova, 1964

*Gonamophyton ovale* Vologdin and Drosdova, 1964, p. 577, pl. 1, figs. 1–6; Cyanophyceae; near Nelkan, Khabarovsk Territory, U.S.S.R.; upper Precambrian. ING

*GONDOMARIA* Teixeira, 1964

*Gondomaria alethifolia* Teixeira, 1964, C. R. v[e] Congr. Strat. and Geol. Carbon., v. 2, p. 821–822, 7 pls.; near Porto, Portugal; Stephanian. Noticed in Boureau, v. 4, p. 372.

*GONDWANOSTACHYS* Meyen, 1967

*Gondwanostachys australis* Meyen, 1967, p. 143–144, figs. in Townrow, J., 1955, pl. 1, figs. A, D–F; fertile shoots of *Phyllotheca australis*, Gondwanostachyaceae; Hawkesbury River, near Port Jackson, New South Wales, Australia; Permian. New name for *Phyllotheca australis* Brongniart, 1828, p. 150.

*GONIOLINOPSIS* Milanovic, 1966

*Goniolinopsis hexagona* Milanovic, 1966, p. 115–121, pls. 1–3; dasycladacean alga; Velebit Mountain, Yugoslavia; Middle to Upper Permian.

*GONDWANOPHYTON* Maithy, 1972

*Gondwanophyton indicum* Maithy, 1972, p. 298–302, pls. 1, 2, figs. 1–7; fan-shaped entire leaves, Palaeophyllales; Churuliapit, Raniganj coal field, West Bengal, India; Raniganj Stage.

*GOPADIA* Srivastava, 1974

*Gopadia coriacea* Srivastava, 1974, p. 44–45, pl. 1, figs. 1–5; fossil leaf; Nidpur, Sidhi District, M. P., India; Lower (?) and Middle Triassic.

*GORNOSTACHIA* Shapovalova, 1974

*Gornostachia longa* Shapovalova, 1974, p. 104–107, pl. 23, figs. 1–5; stromatolite; Sette-Daban Mountains, Yakutskaya, U.S.S.R.; Riphean.

*GRAMBASTIA* Brousmiche, 1978

*Grambastia goldenbergii* (Andrae) Brousmiche, 1978, p. 164, pls. 1–4; sphenopteridian frond; Sarre-Lorraine coal field, France; Carboniferous. New name for *Sphenopteris goldenbergii* Andrae, 1865, p. 43, pl. 14.

*GRAMBASTIELLA* Massieux and Tambareau, 1978

*Grambastiella acuta* Massieux and Tambareau, 1978, p. 143–144, pl. 1, figs. 1–6; alga, Characeae; central Pyrenees; Thanetian.

*GRAMINOCARPON* Chitaley and Sheikh, 1971

*Graminocarpon mohgaonense* Chitaley and Sheikh, 1971, p. 141, figs. 1–7, 9; monocotyledonous albuminous grain; Mohgaon Kalan, India; Deccan Intertrappean cherts. ING

*GRANDIPHYCUS* Nautiyal, 1978

*Grandiphycus satpuliensis* Nautiyal, 1978, p. 222–226, figs. 1, 2; fossil alga, Nostacales; Satpuli, Garhwal Himalaya, India; Precambrian.

*GUAREOXYLON* Lemoigne, 1978

*Guareoxylon cedratoides* Lemoigne, 1978, p. 130–131, pl. 9, figs. 11–13; fossil wood; Welkite region, Ethiopia; Miocene.

*GUIZHOUNEMA* Mu Xinan, 1977

*Guizhounema endosporicum* Mu Xinan, 1977, p. 153, pl. 1, figs. 1–7; pl. 2, fig. 9 (a); fossil fungi; Anshun of Guizhou, China; Upper Permian.

*GYMNOVULITES* Shukla, 1948

*Gymnovulites* (no species given) Shukla, 1948, p. 259, pl. 18, fig. 14; seed, Cycadinae; Mohgaon-kalan, Chhindwara District, India; Tertiary. ING

## H

*HALOSPHAEROPSIS* Mädler, 1963

*Halosphaeropsis liassica* Mädler, 1963, p. 313, pl. 15, figs. 2–9; alga, Chlorophyceae; Ziegeleigrube Osterfeld bei Goslar, Germany; Lias.

*HALYTHRIX* Schopf, 1968
*Halythrix nodosa* Schopf, 1968, p. 678, pl. 77, fig. 7; incertae sedis, "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; upper Precambrian, Bitter Springs Formation.

*HAMATOPHYTON* 1974
*Hamatophyton verticillatum*, 1974, p. 38, pl. 19, figs. 3-5; pl. 20, figs. 1-4; Hyeniales; China; Paleozoic. In Paleozoic plants of China: Nanking Inst. Geol. and Palaeont., 1974 (in Chinese).

*HAMULUSELLA* Elliott, 1978
*Hamulusella sedalanensis* Elliott, 1978, p. 687-691, pl. 73; dasycladacean alga; northeastern Iraq and western Iran; Paleocene.

*HARRISOCARPON* Chitaley and Nambudiri, 1973
*Harrisocarpon sahnii* Chitaley and Nambudiri, 1973, p. 36-41, pl. 1; petrified dicotyledonous fruit; Mohgaon-kalan, Chhindwara District, India; Deccan Intertrappean beds, Eocene.

*HASTYSTROBUS* van Konijnenburg-van Ciltert, 1971
**Hastystrobus muirii* J. H. A. van Konijnenburg-van Ciltert, 1971, Acta Bot. Neerl., v. 20, p. 30; male fructification, Cycales; Hasty Bank, Yorkshire, England; Jurassic, lower Deltaic. ING

*HELICONEMA* Schopf, 1968
*Heliconema australiensis* Schopf, 1968, p. 671-672, pl. 81, figs. 2, 3; "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; upper Precambrian, Bitter Springs Formation. Species name corrected to *H. australiense* in Schopf and Blacic, 1971, p. 956.

*HELIOPORELLA* Sokač and Nikler, 1973
*Helioporella cylindrica* Sokač and Nikler, 1973, p. 9-11, pl. 1, figs. 1-8, calcareous algae, Dasycladaceae; Yugoslavia; Barrémian and Aptian. ING

*HELMINTHOSORITES* Chitaley and Sheikh, 1971
*Helminthosorites mohgaonense* Chitaley and Sheikh, 1971, p. 141, fig. 8; fungi; Mohgaon-kalan, India; Deccan Intertrappean cherts. ING

*HERBULA* Stepanov, 1967
*Herbula marina* Stepanov, 1967. Noticed in Stepanov, S. A., 1975, p. 75, pl. 29, fig. 11; Primofilices, incertae sedis; Devonian.

*HIDASIA* Nagy, 1965
**Hidasia duigana* E. Nagy, 1965, Acta Bot. Acad. Sci. Hungary, v. 11, p. 212; algae; Hidas, Mecsek Mountains, Hungary; middle Miocene. ING

*HOLOPTELEOXYLON* Awasthi, 1975
*Holopteleoxylon indicum* Awasthi, 1975, p. 23-24, pl. 2, figs. 9, 11-13; fossil wood; Murattandichavidi near Pondicherry, India; Cuddalore series, Miocene and Pliocene.

*HOMALIOXYLON* Prakash and Tripathi, 1972
*Homalioxylon assamicum* Prakash and Tripathi, 1972, p. 305-307, pl. 1, figs. 1, 3, 5, 6; wood, Flacourtiaceae; Rath Tila, near the town of Hailakandi, Cachar District, Assam, India; upper Miocene.

*HONANELLA* Vologdin, 1958
*Honanella densa* Vologdin, 1958, p. 27-28, pl. 5, figs. 1-2; alga; Honan; Cambrian.

*HONSELERIA* Mustafa, 1978
*Honseleria verticillata* Mustafa, 1973, p. 39-40, pl. 5, figs. 3-4; xylem-cylinder; Sauerland, Germany; Givetian.

*HYDROCORYNITES* Maslov, 1960
*Hydrocorynites stylostromicus* Maslov, 1960, p. 63, text fig. 7; alga; Siberian platform, U.S.S.R.; Ordovician. ING

*HYSTERIOPSIS* Geyler, 1887
**Hysteriopsis subopegraphoides* H. T. Geyler, 1887, Vega-Exped. Vetensk Iakttagelser, v. 4, p. 487; fungi; Labuan, Borneo, Indonesia; Tertiary. ING

I

*IEVLEVIA* Samylina, 1976
*Ievlevia dorofeevii* Samylina, 1976, p. 93, pl. 48, figs. 11b, 12, 13b; seeds, Vitaceae; Omsukchan, Magadan District, U.S.S.R.; Cretaceous.

*IKELLA* Shuyskiy, 1970
**Ikella vermicularis* Shuyskiy, 1970, Akad. Nauk U.S.S.R., Uralskiy Nauchniy Tsentr. Inst. Geol. i Geophy. im. A. N. Zarbitskogo; Serga River, U.S.S.R.; Lower Devonian.

*ILEMORPHYTON* Stepanov, 1972
**Ilemorphyton asiaticum* S. A. Stepanov, 1972, Novye Vidy Drevnih Rast. Bespozvonocnyh, U.S.S.R., p. 299; Psilopsida; southern Minusinsk Basin, Altai-Sayansky District, U.S.S.R.; Devonian, Givetian. ING

*IMPERIELLA* Elliott, 1975
*Imperiella iranica* Elliott, 1975, p. 452-454, pl. 1, figs. 1-3; green algae, Dasycladaceae; Emerat, Alborz, Iran; Upper Permian.

*INDOCARPUS* Surange and Chandra, 1972
*Indocarpus elongatus* Surange and Chandra, 1972, p. 2-3, pl. 2, fig. 5; pl. 4, fig.

K

Geol., v. 96, p. 13; stem, incertae sedis; Staraja Balahonka, Kemerovo District, Kuznetsk Basin, U.S.S.R.; Carboniferous and Permian. ING

*KEMIA* Ananiev, 1948

*Kemia rostrata* Ananiev, A. R., 1948, Trudy Tomsk. Gosud Univ. Kujbys. Ser. Geol., v. 99, p. 35; fruits, Alismataceae; Kem River, tributary of Yenisey River, U.S.S.R.; Upper Cretaceous. ING

*KENDOSTROBUS* Surange and Chandra, 1972

*Kendostrobus cylindricus* Surange and Chandra, 1972, p. 255–256, pl. 1, figs. 1, 2; cone, male fructification, probably Glossopteridales; Raniganj coal field, Bengal, India; Upper Permian.

*KIRJAMKENIA* Prinada, 1970

**Kirjamkenia lobata* Prinada, 1970, Iskap. Fl. Korvanc. Svity, p. 59; leaf, Pteridospermae; left bank of Lower Tunguska River, Siberia, U.S.S.R.; Lower Triassic. ING

*KLIMETIA* Makarikhin, 1978

*Klimetia marginata* Makarikhin, 1978, p. 81–82, pl. 1, figs. 3, 5, 6; stromatolite; Karelia, U.S.S.R.; Yatulian.

*KOCHANSKYELLA* Milanović, 1974

*Kochanskyella tulipa* Milanović, 1974, p. 127–132, 5 pls.; algae, Dasycladaceae; northeastern slopes of Mount Velebit, near the villages of Brizik, Okic, Medak, and Meduvode, Croatia, Yugoslovia; Middle to Upper Permian.

*KONINCKOPOROIDES* Rich, 1974

*Koninckoporoides monteaglensis* Rich, 1974, p. 367, pl. 2, figs. 10, 12, 13, 18; pl. 5, figs. 1, 2; algae, Chlorophyceae-Dasycladaceae; Grundy County, Tennessee, U.S.A.; Upper Mississippian. ING

*KOOMPASSIOXYLON* Kramer, 1974

*Koompassioxylon elegans* Kramer, 1974, p. 117–124, pl. 27, figs. 94, 95, 97–101; pl. 28, fig. 105; fossil wood, Leguminosae; British Borneo; Tertiary.

*KORDEPHYTON* Radugin and Stepanova, 1964

**Kordephyton crinitum* (Korde) Radugin, K. V., and Stepanova, M. V., 1964, Mater. Geol. Polezn. Iskop Zapadn. Sibiri, p. 64; thallus, Rhodophyta-Cambrinaceae; Elanskoe on the Lena River, Yakutia, U.S.S.R.; Middle Cambrian. ING

*KORILOPHYTON* Voronova, 1976

*Korilophyton inopinatum* Voronova, 1976, p. 83–84, pl. 17, figs. 4–6; algae incertae sedis; Siberian platform, U.S.S.R.; Cambrian.

*KORVUNTSCHIANA* Prynada, 1970

**Korvuntschiana dentata* Prynada, 1970, Flore fossile de la srie de Korvuntschansk, p. 49–51, pl. 3, fig. 1; pinnules, Pecopterideae; Toungouska [Tunguska?] Basin, Siberia; Lower Triassic. Noticed in Boureau and Doubinger, 1975, p. 258.

*KOTUIKANIA* Komar, 1964

**Kotuikania torulosa* Komar, 1964, noted in Walter, Krylov, and Preiss, 1979, p. 294; north Siberian platform, U.S.S.R.; Riphean.

*KRASSAVINELLA* Feist-Castel, 1977

*Krassavinella lagenalis* (Straub) Feist-Castel, 1977, p. 771–775, 1 pl.; charophyte; between Ehingen and Ulm on the Donau River, Germany; Oligocene. New name for *Chara lagenalis* Straub, 1952.

*KUGARTENIA* Sixtel, 1953

**Kugartenia irregularis* Sixtel, 1953, sterile fronds; Ferghana, U.S.S.R.; Lower Jurassic. Noticed in Boureau and Doubinger, 1975, p. 259, fig. 207.

*KUSJAELLA* Chuvashov, 1973

*Kusjaella fruticosa* Chuvashov, 1973, p. 37–38, pl. 4, figs. 1–5; pl. 5, figs. 5, 10; algae, Sycidiaceae; Koyva River near settlement of Kus'e-Aleksandrovsk, western slope of the central Urals, U.S.S.R.

*KUSSOIDELLA* Semikhatov, 1978

*Kussoidella limata* Semikhatov, 1978, p. 138–140, pl. 22, figs. 1–4; stromatolite; Canadian Shield; Aphebian.

*KUZBASSOXYLON* Parfenova, 1963

**Kuzbassoxylon* Parfenova, M. D., 1963, Izv. Tomsk. Politehn. Inst., v. 121, p. 90; incertae sedis. ING

## L

*LAGENUMBELLA* Mamet, 1970

*Lagenumbella lageniformis* (Reitlinger) Mamet, 1970, v. 7, no. 4, p. 1169, pl. 1, figs. 10–12; Charophyceae-Umbellaceae; Armenia, U.S.S.R.; Upper Devonian and Lower Carboniferous. New name for *Umbella lageniformis* Reitlinger, 1966, p. 218, pl. 1, figs. 6–11.

*LARICIOXYLON* Greguss, 1969

*Laricioxylon nógrádense* Greguss, 1969, p. 97, pl. 85, figs. 1–6; wood, Pinaceae; Nogradezakal, Hungary; Sarmatian.

*LATISPHAERA* Licari, 1978

*Latisphaera wrightii* Licari, 1978, p. 784–785, pl. 2, figs. 8–9; alga, Chlorococcales; eastern California, U.S.A.; upper pre-Phanerozoic.

*LEIOPLANKTONA* Kar and Saxena, 1974

*Leioplanktona madhensis* Kar and Saxena,

M

*MOSELLOPHYTON* Schaarschmidt, 1974
*Mosellophyton hefteri* Schaarschmidt, 1974, p. 192–200, pl. 28, figs. 1a–2; bulbous stems and branches, ?psilophyte; Grosser Steinbruch in Alkener Bachtal bei Alken and Mosel, western Germany.

*MOSTOTCHKIA* Chachlov, 1939
**Mostotchkia longifolia* Chachlov, V. A., 1939, Trudy Tomsk. Gosud. Univ. Kiybyseva, Ser. Geol., v. 96, p. 12; leaf, incertae sedis; Staraja Balahonka, Kemerovo District, Kuznetsk Basin, U.S.S.R.; Carboniferous and Permian. ING

*MULTISIPHONIA* Tsao and Liang, 1974
*Multisiphonia nanshanensis* Tsao and Liang, 1974, p. 9–10, pl. 2, fig. 4; alga, Corallinaceae; China; Sinian.

*MUSATEA* Galtier, 1968
*Musatea globata* Galtier, 1968, p. 1004–1007, pl. 1, figs. 1–15; pl. 2, figs. 19–28; coenopterid fern, fructification; Roannais and near Autun, France; Lower Carboniferous.

*MYELONTORDOXYLON* Mussa, 1978
*Myelontordoxylon vittii* Mussa, 1978, p. 170–173, pls. 4–5, figs. 18–31; Pedreira Maluf, near Piricicaba, São Paulo, Brazil; Permian, Irati Formation.

*MYXOCOCCOIDES* Schopf, 1968
*Myxococcoides minor* Schopf, 1968, p. 676, pl. 81, fig. 1; pl. 83, fig. 10; "alga," Chroococcaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.

N

*NANAMANICOSIPHONIA* Cao and Zhao, 1978
*Nanamanicosiphonia minuta* Cao and Zhao, 1978, p. 35, pl. 1, fig. 4; fossil alga; southwest China; Sinian.

*NATALIANA* Baxter, 1978
*Nataliana sinuata* Baxter, 1978, p. 79–84, 3 pls.; lycophyta incertae sedis; Lost Creek Mine, Oskaloosa, Iowa, U.S.A.; Middle Pennsylvanian, Des Moinesian Series.

*NAUCLEAPHYLLUM* Louvet and Mouton, 1970
*Naucleaphyllum ovale* Louvet and Mouton, 1970, p. 82–85, pl. 2; fossil leaf; Libya; Oligocene.

*NELCANELLA* Vologdin and Drozdova, 1964
*Nelcanella stellata* Vologdin and Drozdova, 1964, p. 114–115, pl. 1, figs. 3A, 5; algae; Ayany-Maysky region of the Russian Far East; Uchur series, Proterozoic.

*NEOANNULARIA* Wang Xifu, 1977
*Neoannularia shanxiensis* Wang Xifu, 1977, p. 185–187, pl. 1, figs. 1–9; whorled leaf-bearing stems; Sichuan-Shanxi area, China; Upper Triassic.

*NEOCHARA* Wang Zhen, 1978
*Neochara huananensis* Wang Zhen, 1978, p. 112–113, pl. 5, figs. 21–24, 40–45; charophyte; Yangtze-Han River basin, China; Paleogene.

*NEOMACROPORELLA* Crescenti, 1964
*Neomacroporella cretacica* Crescenti, 1964, p. 8, pl. 1, figs. 5, 6; pl. 2, figs. 1, 2, 4; calcareous algae, Dasycladaceae; Italy; Cretaceous.

*NEOMARIOPTERIS* Maithy, 1972
*Neomariopteris polymorpha* (Feistmantel) Maithy, 1972, p. 70–75, pl. 1, figs. 1–4; new name for *Sphenopteris polymorpha* Feistmantel, 1876, p. 365, pl. 16, figs. 5–7; pl. 17, figs. 1–3; fern fronds; Raniganj coal field, Bengal, India; Permian.

*NEOMIZZIA* Lévy, 1966
*Neomizzia elongata* Lévy, 1966, p. 37, pl. 1, figs. 1, 2; articulated dasyclad; Rharb-Prerif, Morocco; Lower Jurassic. ING

*NEOSTACHYA* Wang Xifu, 1977
*Neostachya shanxiensis* Wang Xifu, 1977, p. 188–189, pl. 2, figs. 1–10; fossil cone; Sichuan-Shanxi area, China; Upper Triassic.

*NEOTEUTLOPORELLA* Bassoullet, 1978
*Neoteutloporella socialis* (Radoicic) Bassoullet, Bernier, Conrad, Deloffre and Jaffrezo, 1978, p. 184, pl. 21, figs. 5–7; calcareous algae, Dasycladaceae; l'Apennin central, Italy; Upper Jurassic. New name for *Teutloporella gallaeformis* Radoicic, 1964, p. 219–235.

*NEPHROSTROBUS* Chachlov, 1940
**Nephrostrobus degaliensis* Chachlov, V. A., 1940, Trudy Nauk Konf. Izuc. Osvolnie Proizv. Sibiri, v. 2, p. 188; strobilus, Coniferales; Degali, Lower Tunguska River, U.S.S.R.; Upper Carboniferous. ING

*NIGRELLA* Nikitin, 1976
*Nigrella spinulosa* Nikitin, P. A. ex Nikitin, V. P., 1976, Trudy Inst. Geol. Geofiz., v. 233, p. 193, pl. 74, figs. 15–23; seed; Kireevskoe, Ob River, Tomsk District, western Siberia, U.S.S.R.; Miocene. ING

*NIKITINELLA* Dorofeev, 1974
**Nikitinella tavdensis* Dorofeev, V. I., 1974, Iskopaemye Cvetkovye Rast.

O

1967. Noticed in Stepanov, S. A., 1975, p. 73–75, pl. 28, figs. 1–8; Primofilices, incertae sedis; Devonian.

*OSCILLATORIOPSIS* Schopf, 1968

*Oscillatoriopsis obtusa* Schopf, 1968, p. 666–667, pl. 77, fig. 8; "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.

*OSMUNDACAULIS* Miller, 1967

*Osmundacaulis skidegatensis* (Penhallow) Miller, 1967, p. 146; rhizomes, roots, leaf-bases, Osmundaceae; a new name for *Osmundites* Unger because of prior use by Jaeger, 1827. ING

*OTOFOLIUM*, 1974

*Otofolium polymorphum*, 1974, p. 164–165, pl. 127, figs. 2–6; leaflets, Coniferae; China; Carboniferous. In Paleozoic plants of China: Nanking Inst. Geol. and Palaeont., 1974 (in Chinese).

*OUGENIOXYLON* Prakash and Tripathi, 1975

*Ougenioxylon tertiarum* Prakash and Tripathi, 1975, p. 140–142, pl. 1, figs. 1–3; pl. 2, figs. 5–6; fossil wood; Sultanicherra, Assam, India; Tertiary.

P

*PAEONIAECARPUM* Andreanszky, 1961

**Paeoniaecarpum hungaricum* Andreansky, 1961, Ann. Hist. Nat. Mus. Natl. Hung., v. 53, p. 15; fruit, Ranunculaceae; Szelecsi Valley, Hungary; Miocene, Sarmatian. ING

*PAGODAPORELLA* Elliott, 1966

*Pagodaporella wetzelii* Elliott, G. F., 1966, Micropaleontology, v. 2, p. 333; Dasycladaceae; Bekhme, Erbil Luva, northern Iraq; Paleocene. ING

*PALAEOANACYSTIS* Schopf, 1968

*Palaeoanacystis vulgaris* Schopf, 1968, p. 672–676, pl. 82, figs. 5–7; "alga," Chroococcaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.

*PALAEOARTHRODENDRON* Dayal, 1964

*Palaeoarthrodendron diffusum* (Ulrich) Dayal, 1964, p. 716–717; Alaska; Lower Jurassic. Revised name for *Arthrodendron* Ulrich, 1904, Harriman Alaska Exped., Geology and Paleontology, p. 138.

*PALAEOBERESELLA* Mamet and Roux, 1974

*Palaeoberesella lakuseni* (von Möller, 1879) Mamet and Roux, p. 138, alga, Palaeobereselleae; Vyazma, U.S.S.R.; Viséan. New name for *Nodosinella lahuseni* von Möller, 1879, p. 75, pl. 5, figs. 6–7; pl. 3, fig. 5.

*PALAEOEURYALE* Dorofeev, 1972

*Palaeoeuryale sukaczevii* (Dorofeev) Dorofeev, 1972, p. 1052, pl. 1, figs. 7, 8; pl. 2, fig. 7; seed, Nymphaeceae; Lezanki, Irtyse, Omskaja District, U.S.S.R.; upper Miocene. New name for *Eurale sukaczevii* Dorofeev. ING

*PALAEOGEMINELLA* Fairchild and Schopf, 1973

*Palaeogeminella folkii* Fairchild and Schopf, 1973, p. 951, pl. 1, figs. 1–9; Chlorophyceae-Ulotrichaceae; Brewster County, Texas, U.S.A.; Upper Devonian. ING

*PALAEOGIRVANELLA* Krasnopeeva, 1937

**Palaeogirvanella ergiensis* Krasnopeeva, P. S., 1937, Mater. Geol. Krasnojarsk. Kraja, v. 3, p. 12; algae; Potehino, Hakassia, Kuznetsk, Alatau Range, U.S.S.R.; Cambrian. ING

*PALAEOLEPTOPHYCUS* Korde, 1954

**Palaeoleptophycus varsanofievae* (Korde) Korde, 1954, Mater. Osnov. Paleontol., v. 2, p. 104; Cyanophyceae, Rivulariaceae; near Boguchany, Krasnoyarsk Territory, U.S.S.R.; Upper Cambrian. New name for *Leptophycus varsanofievae* Korde. ING

*PALAEOLYNBYA* Schopf, 1968

*Palaeolynbya barghoorniana* Schopf, 1968, p. 665–666, pl. 77, figs. 1–5; "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.

*PALAEOMICROCOLEUS* Korde, 1965

*Palaeomicrocoleus grumeri* Korde, 1965, p. 432, pl. 1, fig. 5; Cyanophyceae, Schizotrichaceae; Minnesota, U.S.A.; Precambrian, Huronian. ING

*PALAEOMICROCYSTIS* Maithy, 1975

*Palaeomicrocystis schopfii* Maithy, 1975, p. 138, pl. 2, figs. 11, 12; algal, long and narrow filaments, Chroococcaceae; Kanshi, Zaire; Bushimay Supergroup, upper Precambrian.

*PALAEONITES* Maslov, 1956

*Palaeonites jacutii* (Maslov) Maslov, 1956, p. 80, pl. 25, fig. 2; Rhodophyceae, Proauloporaceae; Lena River, Yakutsk, U.S.S.R.; Lower Cambrian. New name for *Epiphyton jacutii* Maslov. ING

*PALAEOPHTHORA* Singhai, 1978

*Palaeophthora mohgaonensis* Singhai,

*PARACONOPHYTON* Liang and Tsao, 1974
*Paraconophyton inconspicua* Liang and Tsao, 1974, p. 12, pl. 8, fig. 2; alga, Corallinaceae; China; Sinian.

*PARAGARWOODIA* Poncet, 1974
*Paragarwoodia balbinia* Poncet, 1974, p. 226, pl. 4, fig. 1; calcareous algae, Codiaceae; Amoricain Massif, Baubigny (Manche), western France; Lower Devonian.

*PARAGONDWANIDIUM* Meyen, 1967
*Paragondwanidium sibiricum* (Petunn.) Meyen, 1967, p. 145–146, text fig. 5; leaves with distinct midrib and lateral veins concentrated in bundles; Angara, U.S.S.R.; Permian.

*PARAKAMAENA* Mamet and Roux, 1974
*Parakamaena tenuisepta* (Mamet and Rudloff, 1972) Mamet and Roux, 1974, p. 139–140 (pl. 5, fig. 11 in Mamet and Rudloff, 1972); alga, Palaeobereselleae; Northern Hemisphere; Lower Carboniferous. New name for *Kamaena? tenuisepta* Mamet and Rudloff, 1972.

*PARALANCICULA* Shuyskiy, 1973
*Paralancicula fibrosa* Shuyskiy, 1973, p. 18–20, pl. 1, figs. 1–3; green algae, Codiaceae; western slopes of the central Urals, U.S.S.R.; Lower Devonian.

*PARALYCOPODITES* Morey and Morey, 1977
*Paralycopodites minutissimum* Morey and Morey, 1977, p. 64–69, pls. 1–2; branching lycopod axis; Williamson County, Illinois, U.S.A.; Middle Pennsylvanian.

*PARAMICROTHALLITES* Jain and Gupta, 1970
*Paramicrothallites* (*Microthallites*) *spinulatus* (Dilcher) Jain and Gupta, 1970, p. 179, fig. in Dilcher, 1965, pl. 12, fig. 92; epiphyllous fungus, Microthyriaceae; Eocene.

*PARAOEROMUNNEA* Dilcher, Potter, and Crepet, 1976
*Paraoeromunnea puryearensis* (Berry) Dilcher, Potter, and Crepet, 1976, p. 536–537, figs. 7–15, 22, 23, for *Engelhardia* (sic.) *puryearensis* Berry, 1916, 1930; winged fruit, Juglandaceae; Henry County, Tennessee, U.S.A.; Eocene.

*PARAPSILOPHYTON* Senkevic, 1972
**Parapsilophyton balkhashensis* Senkevic, M. A., 1972, Novye Vidy Drevnih Rast. Bespozvonocnyh S.S.S.R., p. 298; Psilopsida; Kazanstan, U.S.S.R.; Devonian, Eifelian. ING

*PARASOLENOPORA* Tsao and Zhao, 1974
*Parasolenopora irregularis* Tsao and Zhao, 1974, p. 70, pl. 25, fig. 2; ?Solenoporaceae; southwest China; Sinian, Tongying Formation. Noticed in Cao Ruiji and Zhao Wenjie, 1978, p. 24.

*PARASOROCAULUS* Turutanova-Ketova, 1968
**Parasorocaulus corticalis* Turutanova-Ketova, A. I., 1968, Novye Vidy Drevnih Rast. Bespozv. S.S.S.R., v. 2, no. 1, p. 18; branch with leaves, Phyllothecaceae; Saur Range, eastern Kazakhstan, U.S.S.R.; Upper Triassic and Lower Jurassic. ING

*PARASPOROTHECA* Dennis and Eggert, 1978
*Parasporotheca leismanii* Dennis and Eggert, 1978, p. 117–139, 45 figs.; compound synangiate pollen organ; Berryville, Illinois, U.S.A.; Mattoon Formation, Upper Pennsylvanian.

*PARATERNSTROEMIA* Hickey, 1977
*Paraternstroemia hyphovenosa* Hickey, 1977, p. 140, pl. 42, figs. 2, 4; pl. 43, fig. 1; fossil leaf; Stark County, North Dakota, U.S.A.; Camels Butte Member, Golden Valley Formation, Eocene.

*PARATINOMISCIUM* Wolfe, 1977
*Paratinomiscium conditionalis* (Hollick) Wolfe, 1977, p. 65, pl. 7, fig. 5; fossil leaf; Yakutat Bay, Alaska, U.S.A.; Tertiary.

*PARATORDOXYLON* Mussa, 1978
*Paratordoxylon camposi* Mussa, 1978, p. 174–177, pls. 8–11, figs. 49–64; gymnospermous wood; Pedreira Maluf, near Piricicaba, São Paulo, Brazil; Permian, Irati Formation.

*PARASTACHEIA* Mamet and Roux, 1977
*Parastacheia iglii* Mamet and Roux, 1977, p. 221, pl. 2, figs. 2–3; alga; Igli, Algeria; upper Viséan.

*PARMATHYRITES* Jain and Gupta, 1970
*Parmathyrites indicus* Jain and Gupta, 1970, p. 177–178, pl. 1, fig. 1; fossil fungus, Microthyriaceae; Padappakara (11 km northeast of Quilon), western Ghat, India; Tertiary, Miocene.

*PARSOROPHYLLUM* Lele, 1969
*Parsorophyllum indicum* Lele, 1969, p. 313–318, 2 pls.; fern-like frond; South Rewa Basin, Madhya Pradesh, India; Parsora Stage, middle Gondwana, Triassic.

*PARTHA* Surange and Chandra, 1971
*Partha indica* Surange and Chandra, 1971, new name for *Lidgettonia indica* Surange and Maheshwari, 1970, p. 356–358, pl. 1, figs. 1–4; fertile leaf, Glossopteridales; Hinjrida Ghati, north

of Handappa in the Denkanal District, Orissa, India; Permian.

*PARTITIOFILUM* Schopf and Blacic, 1971

*Partitiofilum gongyloides* Schopf and Blacic, 1971, p. 947, pl. 105, fig. 3; pl. 106, fig. 6; alga; Ellery Gorge, 80 km west of Alice Springs, Northern Territory, Australia; Precambrian.

*PECTINANGIUM*, 1974

*Pectinangium lanceolatum*, 1974, p. 166–167, pl. 128, figs. 9–12; fructifications, Coniferae; China; Carboniferous. *In* Paleozoic plants of China: Nanking Inst. Geol. and Palaeont., 1974 (in Chinese).

*PEKINOPTERIS* Hope and Patterson, 1970

*Pekinopteris auriculata* Hope and Patterson, 1970, p. 1137–1139, figs. 1A, B, C; fernlike plant, incertae sedis; central North Carolina, U.S.A.; Upper Triassic, Pekin Formation.

*PEKISKOPORA* Mamet, 1974

*Pekiskopora macqueeni* Mamet, 1974, p. 40, 42, pl. 1, figs. 1–11; pl. 2, figs. 1–11; alga, Dasycladaceae; region of Mt. Hannington, British Columbia, Canada; Tournaisian.

*PENDULOSTACHYS* Good, 1975

*Pendulostachys cingulariformis* Good, 1975, p. 69–72, pl. 13, fig. 118; pl. 14, figs. 119–128; pl. 15, fig. 129; calamitean cone; Berryville, Lawrence County, Illinois, U.S.A.; Pennsylvanian.

*PENOSPHYLLUM* Hickey, 1977

*Penosphyllum* cordatum (Ward) Hickey, 1977, p. 139, pl. 43, fig. 2; fossil leaf; below Glendive, Montana, U.S.A.; Fort Union Formation. New name for *Pterospermites cordatus* Ward, 1887, p. 93, pl. 41, fig. 4.

*PENTAPORELLA* Senowbari-Daryan, 1978

*Pentaporella rhaetica* Senowbari-Daryan, 1978, p. 6–12, figs. 1–9; dasycladacean alga; Hintersee/Salzburg, Austria; upper Rhaetian.

*PERISPERMUM* Darrah, 1969

*Perispermum pachytestum* (Lesquereux) Darrah, 1969, p. 167–169; gymnosperm seeds; Mazon Creek, Illinois, U.S.A.; Middle Pennsylvanian. New name for *Rhabdocarpus pachytesta* Lesquereux, 1884, pl. 110, figs. 37–38.

*PERISPORITES* Pampaloni, 1902

*Perisporites hirsutus* Pampaloni, 1902, p. 126, pl. 10, fig. 9; fungi, Perisporiaceae; Melilli, Sicily, Italy; Tertiary.

*PERMOPERPLEXELLA* Elliott, 1968

*Permoperplexella attenuata* Elliott, 1968, p. 64, pl. 17, figs. 1–5; calcareous alga, Dasycladaceae; Ora, Mosul, Iraq; Permian, Zinnar Formation. ING

*PERSICOPTERIS* Boureau and Fakhr, 1975

*Persicopteris pachypterioides* Boureau and Fakhr, 1975, p. 269–271, fig. 219; Pecopterideae; Shemshak, Iran; Rhaetic and Lias. In Boureau and Doubinger, 1975.

*PERSITES* Hickey, 1977

*Persites argutus* Hickey, 1977, p. 127, pl. 26, figs. 1, 4, 6, 8; pl. 27, fig. 1; fossil leaves; Morton County, North Dakota, U.S.A.; Bear Den Member, Golden Valley Formation, upper Paleocene.

*PETRASCULA* Gümbel, 1873

*Petrascula bursiformis* (Etallon) Gümbel, 1873, p. 292, pl. 1, figs. 1–15; Dasycladaceae; Switzerland; Upper Jurassic. New name for *Conodictyum bursiforme* Etallon, 1858, p. 530. ING

*PHACELOFIMBRIA* Tsao and Zhao, 1974

**Phacelofimbria emeishanensis* Tsao and Zhao, 1974, p. 70, pl. 24, figs. 1, 2; microproblematica; southwest China; Sinian, Tongying Formation. Noticed in Cao Ruiji and Zhao Wenjie, 1978, p. 26.

*PHANEROSPHAEROPS* Schopf and Blacic, 1971

*Phanerosphaerops capitaneus* Schopf and Blacic, 1971, p. 951–952, pl. 110, figs. 11, 14a–d; alga; Ellery Gorge, 80 km west of Alice Springs, Northern Territory, Australia; Precambrian.

*PHYTOSPONGIA* Maslov, 1960

*Phytospongia cylindrica* Maslov, 1960, p. 59, pl. 2, fig. 4; alga; Siberian platform, U.S.S.R.; Ordovician. ING

*PIAZOPTERIS* Lorch, 1967

*Piazopteris branneri* (White) Lorch, 1967, p. 134, pls. 3, 4, 5; leaves, Matoniaceae; Bahia, Brazil; Jurassic. New name for *Phlebopteris branneri* White, Am. Jour. Sci., v. 35, p. 633.

*PICCOLOMINITES* Unger, 1847

*Piccolominites sardus* Unger, 1847, p. 90; wood; Sardinia; Miocene. ING

*PICEOSTROBUS* Palibin, 1932

*Piceostrobus neustruevii* Palibin, 1932, p. 53, figs. 1c, 2; cone, Pinaceae; Tocilnajo Hill, northwest part of Oreburgskaja District, U.S.S.R.; Oligocene. ING

*PIENINIA* Borza and Misik, 1976

*Pieninia oblonga* Borza and Misik, 1976, p. 65, pls. 1–4; algae; Strazov bei Zilina, Czechoslovakia; Barréme and Apt (Urgon).

*PIPTADENENIOXYLON* Suguio and Mussa, 1978

*Piptadenenioxylon chimeloi* Suguio and

Belgium; Lower Carboniferous. ING

*PYTYS* Endlicher, 1837

**Pytys* Endlicher, 1837, Gen., p. 263; foliage, cones, Coniferae; Europe; Tertiary. ING

Q

*QUASIUMBELLA* Pojarkov, 1965

*Quasiumbella rotunda* (Bykova) Pojarkov, 1965, p. 730, fig. 3; algae, Umbellaceae; Uryupansk District, U.S.S.R.; Upper Devonian, Famennian. New name for *Umbella rotunda* Bykova, *in* Bykova and Polenova, 1955, p. 44, pl. 2, figs. 8–9; pl. 15, figs. 8–9. ING

*QUERCOPTERIS* Chachlov, 1948

**Quercopteris sibirica* Chachlov, 1948, Trudy Tomsk. Gosud. Univ. Kujbyseva, Ser. Geol., v. 99, p. 172; leaf, incertae sedis; Kemerovskaja District, Kuznetsk Basin, U.S.S.R.; Middle Carboniferous. ING

*QUILONIA* Jain and Gupta, 1970

*Quilonia typica* Jain and Gupta, 1970, p. 180, pl. 1, fig. 19; fungus, Microthyriaceae; Padappakara (11 km northeast Quilon), western Ghat, India; Tertiary, Miocene.

R

*RAMSAYSPHAERA* Pflug, 1976

*Ramsaysphaera ramses* Pflug, 1976, p. 130–168, 8 pls.; organic structures; Sheba gold mine near Barberton, Ost-Transvaal, South Africa; Precambrian.

*RAMULINA* Thurmann, 1863

*Ramulina minima* Thurmann, J., 1863, Neue Denkschr. Allg. Schwerz. Ges. Naturwiss, v. 20, no. 1, p. 448, pl. 62, fig. 17; algae; Jura Bernois, Switzerland; Upper Jurassic. ING

*RAONTHUS* Chitaley and Patel, 1975

*Raonthus intertrappea* Chitaley and Patel, 1975, p. 141–149, pl. 1, figs. 1–6; pl. 2, figs. 7–11; a petrified flower; Mohgaonkalan, Chhindwara District, Madhya Pradesh, India; Upper Cretaceous.

*RECTANGULINA* Antropov, 1959

*Rectangulina tortuosa* (Antropov) Antropov, 1959, p. 30, pl. 1, figs. 8–10; algae; near Shugurovo, Tatar, U.S.S.R.; Upper Devonian, Frasnian. New name for *Syniella tortuosa* Antropov, which was described as a foraminiferan. ING

*RENALIA* Gensel, 1976

*Renalia hueberi* Gensel, 1976, p. 19–37, 5 pls.; rhyniophyte (seed fern); north shore of Gaspé Bay, Quebec, Canada; Battery Point Formation, Gaspé Sandstone, Devonian.

*RETUSOCHARA* Grambast, 1971

*Retusochara macrocarpa* Grambast, 1971, p. 28–32, pl. 24, figs. 1–6; pl. 25, figs. 1–12; charophyte, gyrogonite; Provence, southeastern France; Upper Cretaceous.

*RHIZOMITES* Paradkar, 1971

**Rhizomites dakshini* Paradkar, 1971, p. 15; pteridophyte axis; India; Deccan Intertrappean beds. ING

*RHODEOPTERIDIUM* Zimmermann, 1959

*Rhodeopteridium* (*Rhodea*) *fasciaeformis* (Presl in Sternberg) Zimmermann, 1959, p. 274, 280, 727; fernlike foliage; Uranowitz, Bohemia, Czechoslovakia; Upper Carboniferous. New name for Rhodea Presl in Sternberg, 1838.

*RHODOMYRTOPHYLLUM* Rüffle and Jähnichen, 1976

*Rhodomyrtophyllum tristanioides* Rüffle and Jähnichen, 1976, p. 307–336, pl. 51, figs. 1–4; stomata, fossil leaf; Kayna Süd, Saxony, Germany; Upper Eocene.

*RHYMOKALON* Scheckler, 1975

*Rhymokalon trichium* Scheckler, 1975, p. 26–37, figs. 1–35; wood, Cladoxylales; Greene County, New York, U.S.A.; Upper Devonian.

*RIGBYA* Lacey, van Dijk, and Gordon-Gray, 1975

*Rigbya arberioides* Lacey, van Dijk, and Gordon-Gray, 1975, p. 409–411, figs. on p. 410; fructification, incertae sedis; Mooi River district, Natal, South Africa; Upper Permian.

*ROSTHORNIA* Unger

**Rosthornia carinthiaca* Unger, 1842, Neues Jahrb. Mineral. Geognosie 1842, p. 174; wood, dicotyledon; Carinthia between Althofen and Guttaring, Austria; Upper Cretaceous. ING

*ROTHPLETZELLA* Alan Wood, 1949

*Rothpletzella gotlandica* (Rothpletz) Alan Wood, 1949, p. 18–19; alga, an encrusting organism, Cyanophyceae; Baltic region; Wenlock Limestone, Silurian. New name for *Sphaerocodium gotlandicum* Rothpletz, 1913, pl. 7, fig. 3. ING

*ROWLEYA* Long, 1976

*Rowleya trifurcata* Long, 1976, p. 467–481, 4 pls.; petrified vascular plant; Rowley tip, Burnley, Lancashire, England; Lower Coal Measures (Westphalian).

*RUGAPITES* Pant and Basu, 1977
*Rugapites spherica* Pant and Basu, 1977, p. 174, pl. 4, figs. 29–34; dispersed pollen grains; Nidpur, India; Triassic.
*RUGASPERMUM* Pant and Basu, 1977
*Rugaspermum insigne* Pant and Basu, 1977, p. 163, pl. 1, figs. 1–8; fossil seed; Nidpur, India; Triassic.
*RUGATHECA* Pant and Basu, 1977
*Rugatheca nidpurensis* Pant and Basu, 1977, p. 172, pls. 3, 4, figs. 22–34; fossil synangia; Nidpur, India; Triassic.
*RUSANGEA* Lacey, van Dijk, and Gordon-Gray, 1975
*Rusangea elegans* Lacey, van Dijk, and Gordon-Gray, 1975, p. 392–394, figs. on p. 393; seed-bearing fructification, incertae sedis; Mooi River district, Natal, South Africa; Upper Permian.

S

*SAGENOPTERIDIUM* Stanislavsku, 1976
*Sagenopteridium inequale* Stanislavsku, 1976, p. 120–121, pl. 68, fig. 5; pl. 69; fossil leaves; Donetz Basin, U.S.S.R.; Middle Keuper.
*SAHNIOCARPON* Chitaley and Patil, 1971
*Sahniocarpon harrisii* Chitaley and Patil, 1971, p. 288–292, pls. 1–2, figs. 1–14; dicotyledonous pentalocular, septicidal fruit capsule; Mohgaon-kalan, Chhindwara District, India; Upper Cretaceous.
*SAJAKIA* Senkevitsch, 1961
*Sajakia rhomboidea* Senkevitsch, 1961, p. 181, pl. 31, figs. 3–5; leaf-cushions, Leptophloiaceae; northeastern Lake Balkhash area, U.S.S.R.; Upper Devonian.
*SAKOAROTA* Appert, 1977
*Sakoarota polyangiata* Appert, 1977, p. 14–15, pl. 10, figs. 2–4; pls. 11–17; pl. 18, figs. 1–7, 9; pl. 19, fig. 4; pls. 20, 21; equisetales; Sakoa coal basin, southwest Madagascar; lower Gondwana.
*SALICOXYLON* Mädel-Angeliewa, 1968
**Salicoxylon messinianum* (Pampaloni) Mädel-Angeliewa, 1968, Geol. Jahrb., v. 86, p. 454; wood, Salicaceae; Piemont, Italy; Pleistocene. New name for *Salicinium messinianum* Pampaloni. ING
*SALOPEKIELLA* Milanovic, 1965
*Salopekiella velebitana* Milanovic, 1965, p. 373, pls. 1–3; Dasycladaceae; Velebit Mountains, Yugoslavia; Middle and Upper Permian. ING
*SALOPELLA* Edwards and Richardson, 1974
*Salopella allenii* Edwards and Richardson, 1974, p. 315–318, pl. 40, figs. 2, 3; pl. 41, figs. 1–3; axes, Rhyniaceae; Newton Dingle, Shropshire, western England; Lower Devonian.
*SANDOELLA* Mamet and Roux, 1978
*Sandoella fowleri* Mamet and Roux, 1978, p. 74–75, pl. 3, fig. 2; dasycladacean alga; northernmost Tennessee, U.S.A.; lower Viséan.
*SANDREWIA* Mamay, 1975
*Sandrewia texana* Mamay, 1975, p. 81–82, pl. 1, figs. 1, 2; axes with leaves, incertae sedis; Baylor County, Texas, U.S.A.; Lower Permian.
*SANTHALEA* Maithy, 1975
*Santhalea bansloiensis* Maithy, 1975, p. 97–99, pl. 2, figs. 3–6; fossil leaves; Pachwara coal field, Santhal Pargana, Bihar, India; Raniganj(?).
*SAPINDACEAECARPUM* Andreanszky, 1959
**Sapindaceaecarpum lunulatum* Andreanszky, G., 1959, Fl. Sarmat. Stufe Ungarn, p. 156; fruit, Sapindaceae; Balaton, Hungary; Miocene, Sarmatian. ING
*SAPORTELLA* Fucini, 1936
**Saportella* Fucini, A., 1936, Palaeontogr. Italy, ser. 2, v. 1 (App.), p. 92; algae; Monte Pisano, Italy; Wealden. ING
*SARALINSKIA* Krasnopeeva, 1933
**Saralinskia* Krasnopeeva, P. S., 1933, Mater. Geol. Zapadno-Sibirsk. Kraja, v. 4, p. 21; stromatolith, Phaeophyta; Saraly Mine, Kuznetsk Alatan Range, U.S.S.R.; Proterozoic Z. ING
*SARFATIELLA* Conrad and Peybernes, 1973
*Sarfatiella dubarii* Conrad and Peybernes, 1973, p. 302, pl. 1; pl. 2, figs. 1, 2; Dasycladaceae; Corbieres orientales, Aude, France; Middle Jurassic, Bajocian. ING
*SARMAELIA* Turonenko and Virskaia, 1962
*Sarmaella vesiculosa* Turonenko and Virskaia, 1962, p. 265, pl. 55, figs. 1–3; Cyanophyceae, Sarmaellaceae; Akshal River, tributary of Sarma River, pre-Baikal [Pribaikal?] area, U.S.S.R.; Precambrian, upper Sinian. ING
*SASHINIA* Meyen, 1978
*Sashinia aristovensis* Meyen, 1978, p. 304–306, pl. 2, fig. 15; short shoots, incertae sedis; near the village of Kuznetsovo, West Angaraland, U.S.S.R.; Upper Permian, upper Tatarian.
*SATPURIA* Sukh-Dev and Zeba-Bano, 1978
*Satpuria schoraensis* Sukh-Dev and Zeba-

Bano, 1978, p. 500–502, pl. 2, figs. 11–19; pl. 3, figs. 25, 26; linear conifer leaves, affinities uncertain; near Sehora, Madhya Pradesh, India; Jabalpur Formation, Upper Jurassic and Lower Cretaceous.

*SAWDONIA* Hueber, 1971

*Sawdonia ornata* (Dawson, 1871) Hueber, 1971, p. 641–642; a new name for *Psilophyton princeps* var. *ornatum;* stems, Zosterophyllaceae; Gaspé Bay, Canada; Devonian.

*SCALAROXYLON* Vogellehner, 1967

*Scalaroxylon multiradiatum* Volgellehner, 1967, p. 216, pl. 20, figs. 5–8; wood, Cycadophytina; Röthenbach, Franken, Germany; Triassic, Keuper. ING

*SCHIMOXYLON* Kramer, 1974

*Schimoxylon dachalense* (Kräusel) Kramer, 1974, p. 24; wood, Theaceae; Egypt and Borneo, Southeast Asia; Tertiary. New name for *Ternstroemioxylon dachalense* Kräusel, 1939, p. 91, pl. 21, figs. 1, 2.

*SCHIMPERIA* Remy and Remy, 1975

*Schimperia binneyana* Carruth. sp. sensu Taylor, 1967, fig. 6, Remy and Remy, 1975, p. 88–90; *Calamostachys* cone; Nahe area, Germany; Middle Permian.

*SCHVEDOPTERIS* Mogucheva and Radchenko, 1973

*Schvedopteris lobata* Mogucheva and Radchenko, *in* Mogucheva, 1973, p. 50–52, pl. 9, figs. 3, 4; pl. 10, figs. 1–8; ferns, (?)Schizaeceae; left bank of the Nizhney Tunguska River, 25 km below the mouth of the Taymury River, Tunguska Basin, eastern Siberian SFSR, U.S.S.R.

*SCIADOPHYTON* Steinmann, 1928

*Sciadophyton laxum* (Dawson) Steinmann, 1928, p. 46; incertae sedis; Canada; Lower Devonian. New name for *Annularia laxa* Dawson. ING

*SCIAROMIADELPHUS* Abramova and Abramova, 1967

**Sciaromiadelphus longifolius* Abramova, A. L. and Abramova, I. I., 1967, Novasti Sist. Niz. Rast. 1967, p. 334; Musci, Amblistegiaceae. ING

*SCIRROMA* Chandra and Surange, 1977

*Scirroma angusta* Chandra and Surange, 1977, p. 245–247, pl. 1, figs. 3–5; scale leaf; Raniganj coal field, West Bengal, India; Permian.

*SCLEROMEDULLOXYLON* Doubinger and Marguerier, 1975

*Scleromedulloxylon aveyronense* Doubinger and Marguerier, 1975, p. 36–37, pl. 1, figs. 1–4, 7, 8; pl. 3, figs. 2, 4–7, 9; pl. 4, figs. 1–7; pl. 5, fig. 7; gymnospermous wood; St. Afrique Basin, Aveyron Department, southern France; Permian.

*SCOLEPIAEPHYLLUM* Rasky, 1962

**Scolepiaephyllum protoluzonensis* Rasky, K., 1962, Ann. Hist. Nat. Mus. Natl. Hung., v. 54, p. 42; leaves, Flacourtiaceae; Hungary; Tertiary. ING

*SCOPUS* Benecke, 1976

*Scopus gibbosus* Benecke, 1976, p. 104–105, figs. 42–45, 55–81, 85, 94; fructification; Little Tugela River, Natal, South Africa; Upper Permian.

*SCRIBROPORELLA* Spriestersbach, 1935

*Scribroporella socialis* Spriestersbach, 1935, p. 477; Dasycladaceae; Westfalen, West Germany; Middle Devonian. Described as belonging to the Porifera, but S. Rietschel, Senckenber. Leth., v. 47, p. 94 (1966) transferred the genus to the algae. ING

*SEARSOLIA* Pant and Bhatnagar, 1975

*Searsolia oppositifolia* Pant and Shatnagar, 1975, p. 191–198, figs. 1–3; pls. 1, 2, figs. 1–17; coniferlike foliage; Raniganj coal field, West Bengal, India; Upper Permian.

*SELLINGIA* Lorch, 1968

*Sellingia microloba* Lorch, 1968, p. 138, pl. 5, figs. f, d, g; pl. 7, fig. 4; fertile foliage, Schizaeaceae; Makhtesh Ramon, Israel; Jurassic. ING

*SELLIPORELLA* Sartoni and Crescenti, 1962

*Selliporella donzellii* Sartoni and Crescenti, 1962, p. 262, pl. 43, figs. 1–5; Dasycladaceae; Italy; Bajocien and Bathonien.

*SHUGURIA* Antropov, 1950

*Shuguria flabelliformis* Antropov, 1950, p. 30; algae, Parachabakoviaceae; near Shugurovo, Tatar, U.S.S.R.; Upper Devonian, Frasnian. Originally assigned to the algae by B. I. Chuvashov in Paleontol. Zhurn., 1965, part 2, p. 144. ING

*SENGWACARPON* Lacey, 1976

*Sengwacarpon obscurum* Lacey, 1976, pl. 2, fig. 6; cupulate fructification; Lake Kariba, Rhodesia; Molteno.

*SENIA* Khan, 1969

*Senia reticulata* Khan, 1969, p. 335–337, pl. 1, figs. 1–3; incertae sedis; Hinjrida Ghati north of Handapa, Dhenkanal District, Orissa, India; Raniganj Stage, Upper Permian.

*SENOTHECA* Banerjee, 1969

*Senotheca murulidihensis* Banerjee, 1969, p. 359–360, pls. 1–3, figs. 1–17; glossopteridean fructification; Murulidih

*SULLITHECA* Stidd, Leisman, and Phillips, 1977
*Sullitheca dactylifera* Stidd, Leisman, and Phillips, 1977, p. 994–1002, 35 figs.; medullosan pollen organ; near Cayuga, Fountain County, Indiana, U.S.A.; Staunton Formation, Middle Pennsylvanian.

*SUTUROVAGINA* Chow and Tsao, 1977
*Suturovagina intermedia* Chow Tseyen and Tsao Chengyao, 1977, p. 167, pl. 2, figs. 1–14; conifer; east China; Cretaceous.

*SYNLYCOSTROBUS* Krassilov, 1978
*Synlycostrobus tyrmensis* Krassilov, 1978, p. 18–19, pl. 2, figs. 15–30; pl. 3, figs. 31–36; leafy shoots, cuticles, strobili, spores; Tyrma River near Alanap, Amur, Siberia, U.S.S.R.; Upper Jurassic or Lower Cretaceous (Tithonian or Berriasian).

*SYZYGIOXYLON* Kramer, 1974
*Syzgioxylon bataviae* Kramer, 1974, p. 144–152, pl. 30, figs. 137, 138; pl. 31, figs. 139, 140, 142–144, 146; fossil wood, Myrtaceae; West-Java; Tertiary.

*SZEELLA* Vologdin, 1958
*Szeella ordosica* Vologidin, 1958, p. 29, pl. 9, figs. 1–2; pl. 10, figs. 1–2; alga, Szeellaceae; West Ordos, Inner Mongolia; Cambrian.

T

*TAENIOPITYS* Kräusel, 1962
*Taeniopitys scotti* Kräusel, 1962, p. 133–138, pl. 25, figs. 1–8; pl. 26, figs. 9–15; pl. 28, fig. 22; fossil wood; South Victoria Land, Antarctica; Carboniferous and Permian.

*TAIMYRIA* Chachlov, 1964
**Taimyria longifolia* Chachlov, V. A., 1964, Mater. Geol. Polezn. Zapadn. Sibiri, p. 114; branches with leaves, incertae sedis; Kajerkanskoe coal mine, Norilsk coal basin, northern Siberia, U.S.S.R.; Upper Carboniferous. ING

*TAJMYROPTERIS* Schwedov, 1950
**Tajmyropteris parchanovii* Schwedov, 1950; fern foliage; Permian. Noticed *in* Radcyenko, 1961, Permskaia flora severa Eniseisko-Tenskogo kraia Nauchno-issled. Inst. Geol. Arktiki, Trudy, v. 103, p. 83, pl. 20, fig. 1; pl. 21, fig. 1.

*TARAVALIA* Shuyskiy, 1973
*Taravalia frutata* Shuyskiy, 1973, p. 100–101, pl. 34, figs. 1–3; algae incertae sedis; central and southern Urals, U.S.S.R.

*TARTHENIA* Drosdova, 1975
*Tarthenia rotunda* Drosdova, 1975, p. 300–303, pl. 1, figs. 1–5; alga, Protobangiophyceae; Mongolia; Lower Cambrian.

*TAURIDIUM* Güvenc, 1966
*Tauridium cuvillieri* Güvenc, 1966, p. 45–47, pl. 2, figs. 1–4; alga, Codiaceae; Taurus occidentaux, Turkey; Upper Permian.

*TAVDENIA* Dorofeev, 1974
**Tavdenia sibirica* Dorofeev, V. I., 1974, Iskopaemye Cvetkovye Rast. U.S.S.R.; seed Nymphaeaceae; Belojarka, Vaskova, western Siberia, U.S.S.R.; Oligocene. ING

*TAXOCLADUS* Vassilevskaya, 1959
*Taxocladus tschetschumensis* Vassilevskaya, N. D., 1959, Sborn. Statej. Paleontol. Biostratigr., v. 15, p. 76, pl. 11, figs. 1–5; stem with leaves, Taxaceae; Cecuma River, Lena River basin, eastern Siberia, U.S.S.R.; Upper Jurassic. ING

*TCHIHALCHEWIA* Unger, 1863
**Tchihalchewia byzantina* Unger, F.A.A.N., 1863, Compte Rend. Hebd. Seances Acad. Sci., v. 56, p. 516; wood, incertae sedis; Lake Derkos, Thrace, Turkey; Tertiary. ING

*TCHUCOTOPTERIS* Vassilevskaja, 1977
*Tchucotopteris ustinovii* Vassilevskaja, 1977, p. 252–254, pl. 12, illus. 1–4; fossil pinnate leaves, Pteridaceae; Chukotka, vicinity of Kresta Bay, upper reaches of the Nyrvakinotveyen River, U.S.S.R.; Lower Cretaceous, Albian.

*TELEMACHUS* Anderson, 1978
*Telemachus elongatus* Anderson, 1978, p. 61–62, pl. 2, figs. 1–15; pl. 3, figs. 1–9; pl. 6, figs. 1–3; pl. 7, figs. 1–5; cones, Coniferales; Telemachus Spruit, South Africa; Molteno Formation, Upper Triassic.

*TENUOFILUM* Schopf, 1968
*Tenuofilum septatum* Schopf, 1968, p. 679, pl. 86, figs. 10–12; incertae sedis, "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.

*TETORIA* Kimura and Sekido, 1974
*Tetoria endoi* Kimura and Sekido, 1974, p. 23–26, figs. 1–6, pls. 1–3; bipinnate cycadean leaves; upper course of the Makkodani, a tributary of the Tetori, Ishikawa Prefecture, Japan; Lower Cretaceous.

*TETRACOCCOSPORIUM* Biradar and Mahabalé, 1972

*USSURIOCLADUS* Krysshtofovich and Prynada, 1932
**Ussuriocladus racema* (Halle) Krysshtofovich and Prynada, 1932, Materialy Mezozoysky flore Ussiryskogo Kraya–Izv. Vses. Geop.-razved. Obep, 2, vyp. 28.
*USSURITHYRITES* Krasilov, 1967
*Ussurithyrites araucariodendri* Krasilov, 1967, p. 94, pl. 2, figs. 1–3; fungi, Ascomycetae; Krestljanka River, Siyfunsky Basin, U.S.S.R.; Lower Cretaceous. ING

V

*VAGINOPORA* Defrance, 1830
**Vaginopora fragilis* Defrance, J. L. M. ex Blainville, H. M. D. de, 1830, Dict. Sci. Nat'l. (Levrault), v. 60, p. 405; Dasycladaceae; Parnes, Oise, France; Eocene, Lutetian. ING
*VARICAMANICOSIPHONIA* Cao Ruiji and Zhao Wenjie, 1978
*Varicamanicosiphonia quadricella* Cao Ruiji and Zhao Wenjie, 1978, p. 36-37, pl. 1, fig. 5; pl. 2, fig. 5; pl. 3, fig. 2; fossil alga; southwest China; Sinian.
*VELENOVSKIA* Knobloch, 1974
*Velenovskia opatovicensis* Knobloch, 1974, p. 171–173, pl. 1; leaf, incertae sedis; Velké Opatovice, 48 km north of Brno, Moravia, Czechoslovakia; Cenomanian.
*VENUSTROSTROBUS* Chandra and Surange, 1977
*Venustrostrobus diadernus* Chandra and Surange, 1977, p. 137-140, text-fig. 10A, B; female reproductive organ; Selected Jambad colliery, Raniganj coal field, West Bengal, India; Raniganj Stage, Permian.
*VERMICULUS* Bertrand-Sarfati, 1972
*Vermiculus contortus* Bertrand-Sarfati, 1972, p. 163–166, pl. 9, figs. 1–5; problematica; Passe de Serize, Atar, Mauritania, Africa; upper Precambrian.
*VERTEXA* Semikhatov, 1978
*Vertexa termina* Semikhatov, 1978, p. 143–145, pl. 23, fig. 4; pl. 24, figs. 1–4; stromatolite; Canadian Shield; Aphebian.
*VERTICILLODESMIS* Dragastan and Misnik, 1975
*Verticillodesmis clavaeformis* Dragastan and Misik, 1975, p. 215–220, pl. 1, figs. 1–4; algae, Valoniaceae; Vrsatec, Czechoslovakia; Upper Jurassic.
*VESICAMASSULATHUS* Stepanova, 1972
*Vesicamassulatus compositus* Stepanova, 1972, p. 69, pl. 1, figs. 4, 5; microphytolite; Srednyaya Mountain, Batenev Ridge, Altai-Sayan District, U.S.S.R.; upper Precambrian.
*VETELLA* Krylov, 1967
*Vetella uschbasica* Krylov, 1967; stromatolite; Lower Cambrian. Noticed in Schmitt, Michael, 1979, New stromatolites from the upper Precambrian of the Anti-Atlas and from the Lower Cambrian of the High Atlas, Morocco; Senckenbergiana lethaea, v. 60, nos. 1–3, p. 43.
*VETERONOSTOCALE* Schopf and Blacic, 1971
*Veteronostocale amoenum* Schopf and Blacic, 1971, p. 950–951, pl. 107, fig. 4; pl. 108, figs. 1, 2; alga; Ellery Gorge, 80 km west of Alice Springs, Northern Territory, Australia; Precambrian.
*VITEOCOXYLON* Lemoigne, 1978
*Viteocoxylon aethiopicum* Lemoigne, 1978, p. 137, pl. 3, figs. 5–8; fossil wood, Verbenaceae; Welkite region, Ethiopia; Miocene.
*VITIMIA* Vachrameev and Kotova, 1977
*Vitimia doludenkoi* Vachrameev and Kotova, 1977, p. 490–492, pl. 11, illus. 1–5; fossil leaf, Bennettiales; northwest Transbaikalia, left bank of Vitim River, above the mouth of the Baysa River, U.S.S.R.; Lower Cretaceous, upper part of Zazaizn suite.
*VITTAEPHYLLUM* Dobruskina, 1975
*Vittaephyllum hirsutum* Dobruskina, 1975, p. 127–130, pl. 12, figs. 1, 2, 5; leaves; southern Fergana, U.S.S.R.; Upper Permian and Lower Triassic. New name for *Aipteris hirsuta* Sixtel, 1962, p. 320–323, pl. 10, fig. 1, pl. 11, figs. 1–5.
*VLADIMIRIELLA* Saidakovsky, 1971
**Vladimiriella globosa* (Saidakovsky) Saidakovsky, 1971, Geol. Zhurn., v. 31, no. 3, p. 122; Charophyceae; Sumy region, Ukraine, U.S.S.R.; Lower Triassic. New name for *Tolypella globosa* Saidakovsky and figured in Saidakovsky, 1960. ING
*VOLVOXIMORPHITES* Yin and Li, 1978
*Volvoximorphites gregarius* Yin and Li, 197.8, p. 90, pl. 7, figs. 1–2; Volvocaceae?; southwest China; Precambrian.

W

*WARDENSHEPPEYA* Eyde, 1970
*Wardensheppeya davisii* (Chandler) Eyde, 1970, p. 650; endocarp, Menisper-

maceae; Sheppey, Kent, England; Eocene. New name for *Wardenia davisii*, Chandler, 1961, p. 158, pl. 16, fig. 8. ING

*WARDIAPHYLLUM* Hickey, 1977
*Wardiaphyllum daturaefolium* (Ward) Hickey, 1977, p. 150, pl. 52; pl. 53, figs. 1, 2; fossil leaves; below Glendive, Montana, U.S.A.; Fort Union Formation, Paleocene. New name for *Credneria? daturaefolium* Ward, 1887, p. 97, pl. 42, fig. 4.

*WEINMANNIOXYLON* Petriella, 1972
*Weinmannioxylon multiperforatum* Petriella, 1972, p. 195–198, pl. 4, figs. F–I; wood, Cunoniaceae; central Chubut (Cerro Bororo), southern Argentina; Tertiary.

*WILLSIOSTROBUS* Grauvogel-Stamm and Schaarschmidt, 1978
*Willsiostrobus willsii* (Townrow) Grauvogel-Stamm and Schaarschmidt, 1978, new name for *Masculostrobus willsi* Townrow, 1962, p. 25, pl. 1, figs. e, h; pl. 2, fig. i; microsporangiate fructification.

*WOODWARDITES Goeppert, 1836*
**Woodwardites* Goeppert, H. R., 1836, Nov. Actorum Akad. Caes. Leop-Carol. Nat. Cur. 17, Suppl., p. 175; barren fronds, Filicinae; Waldenburg, Silesia, Poland. ING

X

*XYMALOXYLON* Louvet, 1975
*Xymaloxylon zeltenense* Louvet, 1975, p. 276, pl. 2, figs. 1–5; wood, Momimiaceae; Djebel Zelten, Libya, Africa; lower Miocene. ING

Y

*YENTAIIA* Vologdin, 1958
*Yentaiia liaoyangensis* Vologdin, 1958, p. 25–26, pl. 6, figs. 1–2; pl. 7, figs. 1–3; alga, Chlorophyceae; Cambrian.

*YUANIA* Sze, 1974
*Yuania stricta* Sze, 1974, p. 64, pl. 40, figs. 4–7; pl. 41, fig. 1; stems with leaflets; China; Permian. *In* Paleozoic plants of China: Nanking Inst. Geol. and Palaeont., 1974 (in Chinese).

Z

*ZAISSANIA* Romanova, 1971
*Zaissania monucoica* (Romanova) Romanova, 1971, Mater. 1st Fauny Fl. Kazahstana, v. 5, p. 113; leaf, Platanaceae; Kun-Keris Mountain, Zajsan Lake basin, Kazakhstan, U.S.S.R.; Paleocene. New name of *Populus monucoica* Romanova. ING

*ZALESSKIOXYLON* Lepekhina and Yatsendo-Khmelevsky, 1966
*Zalesskioxylon angustum* (Felix) Lepekhina and Yatsenko-Khmelevsky, 1966, p. 68; see Felix, 1882, p. 81; and Halle, 1911, p. 180–181, pl. 9, figs 8, 9; wood of pycnoxylic plant; New South Wales, Australia; Carboniferous. New name for *Dadoxylon angustum* Felix.

*ZEAPORA* Penecke, 1894
*Zeapora gracilis* Penecke, 1894, p. 60, pl. 10, fig. 11; alga, Dasycladaceae; Graz, Steiermark, Austria; Middle Devonian. ING

*ZELKOVOXYLON* Greguss, 1969
*Zelkovoxylon yatsenko-khmelevskyi* Greguss, 1969, p. 83, pl. 75, figs. 1–9; wood, Ulmaceae; Nogradszakal, Hungary; Miocene. ING

*ZINGIBEROPSIS* Hickey, 1977
*Zingiberopsis isonervosa* Hickey, 1977, p. 115, pl. 10, fig. 2; fossil leaves, Zingiberaceae; Stark County, North Dakota, U.S.A.; Camels Butte Member, Golden Valley Formation, lower Eocene.

*ZOSTEROSPHAERA* Schopf, 1968
*Zosterosphaera tripunctata* Schopf, 1968, p. 684, pl. 84, fig. 6; incertae sedis, "alga," Pyrrophyta(?); 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.

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